

Appendix 4-2a

Mean Annual Dissolved Oxygen and Adjusted Deficit Model Predictions

Mean annual dissolved oxygen and adjusted deficit model predictions at grab reference sites in the Everglades Protection Area. Residuals were used to calculate the lower prediction interval for compliance determination. For the model calculations, sample collection times were standardized to Eastern Standard Time (EST).

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
CA215	1995	4.33	3.70	0.63
CA215	1996	4.62	3.72	0.91
CA215	1997	5.50	3.53	1.96
CA215	1998	5.03	3.52	1.51
CA215	1999	5.01	3.73	1.28
CA29	1994	5.03	3.54	1.49
CA29	1995	3.68	3.71	-0.03
CA29	1996	3.84	3.52	0.32
CA29	1997	3.98	3.56	0.42
CA29	1998	3.33	3.58	-0.25
CA29	1999	3.20	3.58	-0.38
CA311	1994	3.11	3.07	0.04
CA311	1995	3.44	3.66	-0.22
CA311	1996	3.31	3.69	-0.38
CA311	1997	3.59	3.65	-0.06
CA311	1998	3.09	3.55	-0.45
CA311	1999	4.03	3.63	0.40
CA315	1994	3.05	3.01	0.03
CA315	1995	2.63	3.48	-0.85
CA315	1996	2.38	3.61	-1.24
CA315	1997	3.07	3.60	-0.53
CA315	1998	3.03	3.49	-0.46
CA315	1999	3.18	3.62	-0.44
CA32	1994	4.07	3.53	0.54
CA32	1995	3.51	4.04	-0.54
CA32	1996	5.10	4.28	0.82
CA32	1997	4.20	3.93	0.27
CA32	1998	3.82	4.07	-0.25
CA32	1999	4.61	3.97	0.64
CA33	1994	2.96	3.75	-0.80
CA33	1995	2.27	4.15	-1.88
CA33	1996	3.36	4.41	-1.05
CA33	1997	2.25	3.37	-1.12
CA33	1998	3.47	3.98	-0.51
CA33	1999	3.54	3.91	-0.37
CA34	1994	2.55	3.20	-0.65
CA34	1995	2.65	3.67	-1.03
CA34	1996	2.72	3.78	-1.06
CA34	1997	2.70	3.83	-1.13
CA34	1998	2.26	3.81	-1.55
CA34	1999	3.69	3.65	0.04

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
CA38	1994	3.26	3.25	0.01
CA38	1995	2.73	3.80	-1.07
CA38	1996	3.60	3.80	-0.20
CA38	1997	2.78	3.77	-0.99
CA38	1998	2.79	3.76	-0.97
CA38	1999	3.83	3.65	0.18
E5	1994	2.91	3.22	-0.31
E5	1995	3.15	3.74	-0.59
E5	1996	3.39	3.59	-0.20
E5	1997	4.46	3.94	0.52
E5	1998	3.68	3.92	-0.23
E5	1999	4.15	4.04	0.11
F5	1994	3.68	3.42	0.27
F5	1995	4.22	3.96	0.25
F5	1996	3.41	3.28	0.13
F5	1997	4.48	3.72	0.77
F5	1998	4.90	3.83	1.08
F5	1999	4.24	3.95	0.30
LOX11	1994	3.68	3.57	0.10
LOX11	1995	1.69	3.70	-2.01
LOX11	1996	4.58	4.21	0.37
LOX11	1997	3.17	3.70	-0.53
LOX11	1998	2.68	4.17	-1.50
LOX11	1999	2.90	3.86	-0.96
LOX12	1994	3.26	3.77	-0.51
LOX12	1995	2.53	3.53	-1.00
LOX12	1996	3.83	4.03	-0.20
LOX12	1997	4.12	3.50	0.62
LOX12	1998	3.28	3.33	-0.04
LOX12	1999	3.71	3.65	0.06
LOX13	1994	3.31	3.50	-0.19
LOX13	1995	2.20	3.79	-1.59
LOX13	1996	4.40	4.12	0.29
LOX13	1997	4.33	3.76	0.58
LOX13	1998	3.72	3.73	-0.01
LOX13	1999	4.54	4.22	0.32
LOX14	1994	1.89	3.54	-1.64
LOX14	1995	1.63	3.83	-2.20
LOX14	1996	2.32	4.22	-1.90
LOX14	1997	2.46	3.92	-1.46
LOX14	1998	3.02	3.61	-0.59
LOX14	1999	2.79	3.84	-1.05
LOX15	1994	2.45	3.48	-1.03
LOX15	1995	2.42	3.51	-1.09
LOX15	1996	3.75	3.94	-0.19
LOX15	1997	3.76	3.56	0.19
LOX15	1998	3.66	3.26	0.40
LOX15	1999	3.86	3.52	0.35
LOX16	1994	1.65	3.56	-1.91

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
LOX16	1995	1.38	3.61	-2.22
LOX16	1996	2.56	4.10	-1.54
LOX16	1997	2.87	3.72	-0.85
LOX16	1998	2.37	3.48	-1.12
LOX16	1999	2.19	3.70	-1.51
LOX3	1994	4.80	3.56	1.24
LOX3	1995	6.28	3.97	2.31
LOX3	1996	4.83	4.45	0.38
LOX3	1997	6.92	3.80	3.12
LOX3	1998	5.76	4.24	1.52
LOX3	1999	5.10	4.28	0.83
LOX4	1994	4.10	4.28	-0.17
LOX4	1995	2.18	4.37	-2.20
LOX4	1996	4.42	4.49	-0.06
LOX4	1997	5.02	4.05	0.97
LOX4	1998	3.25	4.72	-1.47
LOX4	1999	3.20	4.30	-1.10
LOX5	1994	6.17	3.46	2.71
LOX5	1995	5.26	3.71	1.55
LOX5	1996	6.16	4.28	1.88
LOX5	1997	4.64	3.63	1.00
LOX5	1998	5.52	3.72	1.79
LOX5	1999	5.06	3.92	1.15
LOX6	1994	3.80	3.43	0.37
LOX6	1995	2.26	3.35	-1.09
LOX6	1996	3.30	4.11	-0.81
LOX6	1997	3.05	3.60	-0.55
LOX6	1998	2.79	3.61	-0.83
LOX6	1999	2.95	3.49	-0.54
LOX7	1994	2.95	3.37	-0.42
LOX7	1995	1.91	3.43	-1.52
LOX7	1996	2.88	4.06	-1.19
LOX7	1997	3.47	3.64	-0.17
LOX7	1998	3.89	3.49	0.40
LOX7	1999	3.60	3.69	-0.10
LOX8	1994	3.68	3.40	0.28
LOX8	1995	3.06	3.58	-0.52
LOX8	1996	4.51	4.12	0.39
LOX8	1997	4.14	3.65	0.49
LOX8	1998	4.23	3.54	0.69
LOX8	1999	3.82	3.67	0.16
LOX9	1994	4.61	3.65	0.96
LOX9	1995	3.50	3.91	-0.41
LOX9	1996	4.77	4.38	0.39
LOX9	1997	4.65	3.85	0.80
LOX9	1998	5.52	3.95	1.58
LOX9	1999	4.96	4.01	0.95
NE1	1994	5.45	3.70	1.75
NE1	1995	5.30	3.97	1.33

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
NE1	1996	3.53	3.77	-0.24
NE1	1997	3.23	3.62	-0.39
NE1	1998	3.45	3.67	-0.23
NE1	1999	2.93	3.47	-0.54
NP201	1994	5.31	3.62	1.68
NP201	1995	5.26	3.85	1.40
NP201	1996	4.81	3.77	1.04
NP201	1997	5.23	3.60	1.63
NP201	1998	3.77	3.70	0.07
NP201	1999	5.16	3.50	1.65
P33	1994	4.32	3.82	0.49
P33	1995	5.49	4.16	1.33
P33	1996	3.55	3.52	0.02
P33	1997	3.72	3.53	0.19
P33	1998	3.42	3.40	0.01
P33	1999	3.59	3.30	0.29
P34	1994	6.37	3.54	2.83
P34	1995	4.99	3.61	1.38
P34	1996	5.04	3.77	1.27
P34	1997	6.29	3.79	2.50
P34	1998	4.81	4.06	0.75
P34	1999	5.88	3.59	2.29
P35	1994	3.62	3.49	0.14
P35	1995	3.64	3.69	-0.05
P35	1996	3.79	4.12	-0.33
P35	1997	4.54	4.05	0.50
P35	1998	3.52	4.60	-1.09
P35	1999	5.17	4.43	0.74
P36	1994	5.18	4.13	1.06
P36	1995	6.85	4.31	2.54
P36	1996	3.61	3.74	-0.13
P36	1997	4.01	3.84	0.17
P36	1998	3.91	3.98	-0.07
P36	1999	4.72	3.76	0.96
P37	1994	8.22	5.02	3.20
P37	1995	6.58	4.69	1.88
P37	1996	5.96	4.45	1.51
P37	1997	7.70	4.31	3.39
P37	1998	6.96	4.62	2.34
P37	1999	9.39	4.73	4.66
TSB	1994	8.01	5.32	2.69
TSB	1995	7.26	5.31	1.95
TSB	1996	5.58	4.99	0.58
TSB	1997	3.56	2.82	0.74
TSB	1998	5.12	4.16	0.96
TSB	1999	8.11	4.37	3.75
U1	1994	2.82	3.18	-0.35
U1	1995	2.97	3.75	-0.78
U1	1996	2.40	3.85	-1.45

Site	Year	Mean Annual Dissolved Oxygen (mg/L)	Mean Annual Predicted Dissolved Oxygen (mg/L)	Residual (observed-predicted) (mg/L)
U1	1997	3.56	3.84	-0.29
U1	1998	3.19	3.66	-0.48
U1	1999	3.86	4.02	-0.15
U2	1994	3.14	3.26	-0.12
U2	1995	2.51	3.66	-1.15
U2	1996	2.84	3.74	-0.91
U2	1997	3.48	4.10	-0.62
U2	1998	3.30	3.88	-0.59
U2	1999	5.17	3.98	1.19
U3	1994	3.87	3.38	0.49
U3	1995	4.33	3.66	0.66
U3	1996	3.86	3.73	0.13
U3	1997	4.89	3.80	1.10
U3	1998	4.69	3.79	0.90
U3	1999	4.94	4.00	0.94
X3	1996	2.57	3.61	-1.03
X3	1997	3.63	4.40	-0.76
X3	1998	3.75	4.57	-0.81
X3	1999	3.02	3.81	-0.79
X4	1996	2.48	3.73	-1.25
X4	1997	2.97	4.25	-1.28
X4	1998	4.41	4.43	-0.02
X4	1999	4.03	3.87	0.16
Y4	1996	2.71	3.77	-1.06
Y4	1997	3.90	4.59	-0.69
Y4	1998	4.00	4.14	-0.15
Y4	1999	3.91	4.40	-0.49
Z3	1996	2.50	3.57	-1.07
Z3	1997	3.85	4.41	-0.56
Z3	1998	3.44	4.07	-0.63
Z3	1999	3.80	4.06	-0.26
Z4	1996	2.42	3.60	-1.18
Z4	1997	4.38	4.27	0.12
Z4	1998	4.64	4.21	0.44
Z4	1999	4.22	4.21	0.01